

## CLAIMS

We Claim:

1. A three-wire reversing system comprising:
  - a capacitive element;
  - a permanent magnet, reversible, brush-type, direct current motor electrically connected to the capacitive element, said motor having first and second terminals;
  - a first diode having an anode connected to a first switch lead for clockwise rotation of the motor, said first diode being connected to the first terminal of the motor;
  - a second diode having a cathode connected to a second switch lead for counterclockwise rotation of the motor, said second diode being connected to the first terminal of the motor;
  - a common lead connected to the second terminal of the motor; and
  - an alternating current input voltage source electrically connected to the common lead and selectively connected to one of the first switch lead and the second switch lead.
2. A three-wire reversing system, according to claim 1, wherein the capacitive element is a nonpolar, aluminum, electrolytic type of capacitor.
3. A three-wire reversing system, according to claim 1, wherein the capacitive element includes two polarized electrolytic capacitors connected to one another in series at a common negative terminal.
4. A three-wire reversing system, according to claim 1, wherein the capacitive element is connected in parallel across the first and second terminals of the motor.